ABSTRACT OF THE DISCLOSURE

The invention relates to a method for producing a hardened profiled structural part from a hardenable steel alloy with cathodic corrosion protection, wherein:

- a) a coating is applied to a sheet made of a hardenable steel alloy, wherein
 - b) the coating substantially consists of zinc, and
- c) in addition the coating contains one or several elements with affinity to oxygen in a total amount of 0.1 weight-% to 15 weight-% in relation to the total coating, and
- d) subsequently the coated sheet steel is rollerprofiled in a profiling device, so that the sheet tape is formed into a roller-formed profiled strand, and
- e) thereafter the coated sheet steel is brought, at least in parts and with the admission of atmospheric oxygen, to a temperature required for hardening and is heated to a structural change required for hardening, wherein
- f) a skin made of an oxide of the element(s) with affinity to oxygen is formed on the surface of the coating, and
- g) after sufficient heating the sheet is cooled, wherein the rate of cooling is set in such a way that hardening of the sheet alloy is achieved,

as well as to a corrosion-protection layer of the

method and a profiled structural element made thereof.